

WHAT IS CLAIMED IS

1. A rolling bearing comprising an inner race, an outer race and rolling elements, with a grease composition comprising, as the main components, a base oil, a thickener and at least one kind of a rust-preventive additive made from a naphthenate or a succinic acid derivative, packed in a bearing space formed by at least the inner race, the outer race and the rolling elements, said at least one kind of a rust-preventive additive is present in an amount of 0.1 to 10% by weight based on the total amount of the grease composition.

2. The rolling bearing as claimed in claim 1, wherein the naphthenate is a saturated monocyclic carboxylate represented by $C_nH_{2n-1}COOM$, a saturated polycyclic carboxylate represented by $C_nH_{2n-3}COOM$, a derivative thereof or a mixture thereof, wherein M represents a metal element.

3. The rolling bearing as claimed in claim 2, wherein M is selected from the group consisting of Co, Mn, Zn, Al, Ca, Ba, Li, Mg, Cu and Zr.

4. The rolling bearing as claimed in claim 1, wherein the succinic acid derivative is a succinic acid, an alkyl succinic acid, an alkyl succinic acid half ester, an alkenyl succinic acid, an alkenyl succinic acid half ester or a succinic acid imide.

5. The rolling bearing as claimed in claim 1, wherein the amount of said at least one kind of the rust-preventive additive based on the total amount of the grease composition is 0.25 to 5% by weight.

6. The rolling bearing as claimed in claim 1, wherein the thickener is a urea compound, a urea-urethane compound, a urethane compound or a mixture thereof.